| ••• | <br>J. J. | laims |  |
|-----|-----------|-------|--|
|     |           |       |  |

| Appl | ication | No. |
|------|---------|-----|

09/824,836

SHIONOYA, KAZUNORI

Examiner

Art Unit

Applicant(s)

Mark R. Milia

2625

| <b>√</b> | Rejected |
|----------|----------|
| _        | Allowed  |

(Through numeral) Cancelled

Restricted

Non-Elected N

Interference

Appeal Objected

| Cla   | im   | Date                                  |          |  |  |          |  |          |          |               |  |  |
|-------|--|---------------------------------------|----------|--|--|----------|--|----------|----------|---------------|--|--|
| Final | Original   | 11/5/04                               | 6/24/05  | 2/16/06  | 8/4/06   |          |  |          |          |               |  |  |
|       | 1  | 1                                     | 1        | 1  | 1  |          |  |          |          |               |  |  |
|       | 1<br>2<br>3<br>4<br>5  | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 4        | 1  | 1  |          |  |          |          |               |  |  |
|       | 3  | 1                                     | 1        | 1  | 1  |          |  |          |          |               |  |  |
|       | 4  | √                                     | 7 7 7    | 7 7  | 7  |          |  |          |          |               |  |  |
|       | 5  | 1                                     |          | 1  |  |          |  |          |          |               |  |  |
|       | 6<br>7   | 1                                     | 7        | 1  | 1  |          | L  |          |          |               |  |  |
|       |  | 1                                     | 1        | 1  | 777  | _        | _  |          | _        |               |  |  |
|       | 8<br>9   | 1                                     | 7        | 7 7 7 7 7  | 1  |          | _  |          | <u> </u> |               |  |  |
|       | 9  | V                                     | 1        | 1  | <b>√</b>   |          | <u> </u>   |          | $\vdash$ | _             |  |  |
|       | 10   | <u> </u>                              |          | 7  | √<br>√   | <u> </u> | <u> </u>   |          | -        |               |  |  |
|       | 17   |                                       | $\vdash$ |  |  | -        |  |          | <u> </u> | $\vdash$      |  |  |
|       | 12   | <del> </del>                          |          | 1  | 7  |          | -  |          | ⊢        | $\vdash$      |  |  |
|       | 14   | ├-                                    | -        | 1  | 1  |          |  | -        | $\vdash$ | -             |  |  |
|       | 15   | <del> </del>                          | $\vdash$ | ١  | ۱÷   | $\vdash$ | <del>                                     </del> |          | $\vdash$ |               |  |  |
|       | 16   |                                       |          | _  | $\vdash$   |          |  |          |          |               |  |  |
|       | 17   | $\vdash$                              | $\vdash$ |  |  |          | -  |          |          |               |  |  |
|       | 18   |                                       |          |  | _  | _        |  | _        |          |               |  |  |
| ·     | 19   |                                       |          |  |  | Г        |  |          |          |               |  |  |
|       | 20   |                                       | Г        |  |  |          |  |          |          |               |  |  |
|       | 21   |                                       |          |  |  |          |  |          |          |               |  |  |
|       | 22   |                                       |          |  |  |          |  |          |          |               |  |  |
|       | 23   |                                       |          |  |  |          |  |          |          |               |  |  |
|       | 24   |                                       |          |  | L_   |          |  |          |          |               |  |  |
|       | 25   |                                       |          | _  |  |          | _  |          |          |               |  |  |
|       | 26   |                                       | _        | _  | _  |          | <u> </u>   |          |          |               |  |  |
|       | 27   | _                                     | _        | <u> </u>   | _  |          | <u> </u>   |          | <u> </u> |               |  |  |
|       | 28   | ├_                                    | _        | _  |  | _        | <u> </u>   |          | ├        | <u> </u>      |  |  |
|       | 29   | <u> </u>                              | -        | $\vdash$   | <u> </u>   |          | <del> </del>                                     | _        | ├—       |               |  |  |
|       | 30   | ├                                     |          | _  | _  | -        |  | _        | ├        | <del> </del>  |  |  |
|       | 31   | -                                     | -        | -  | $\vdash$   | $\vdash$ | ⊢  |          | ⊢        | -             |  |  |
|       | 32   | ⊢                                     |          | -  |  | -        | $\vdash$   |          |          | -             |  |  |
|       | 34   |                                       | -        | ┝  | ├—   |          | ┢  | -        |          | <del> </del>  |  |  |
|       | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35 | $\vdash$                              | -        | <del>                                     </del> | <del>                                     </del> | $\vdash$ | ┢  | -        | ┢═       |               |  |  |
|       | 36   | $\vdash$                              |          | <del>                                     </del> | <del>                                     </del> | $\vdash$ | ┢  | $\vdash$ | ┢        | ╁             |  |  |
|       | 36<br>37<br>38   |                                       |          | T  | $\vdash$   |          | Т  | Н        | ┢        | 1             |  |  |
|       | 38   |                                       |          | Г  | Γ  | Т        | Г  |          | T-       | Γ             |  |  |
|       | 39   | Π                                     |          | l  |  |          | l  |          |          |               |  |  |
|       | 40   |                                       |          |  |  |          |  |          |          |               |  |  |
|       | 41   |                                       |          |  |  |          |  |          | L        |               |  |  |
|       | 42   |                                       |          |  |  |          |  |          |          |               |  |  |
|       | 43   | L                                     |          |  |  |          |  |          | <u> </u> | $\sqsubseteq$ |  |  |
|       | 44   |                                       |          | L  |  | ļ        | <u> </u>   |          | L        | <u> </u>      |  |  |
|       | 45   |                                       | L.       | <u> </u>   | L  | <u> </u> | <u> </u>   |          |          | <u> </u>      |  |  |
|       | 46_  | <u> </u>                              | _        | <u> </u>   | <u> </u>   | L.       | $ldsymbol{f eta}$                                | <u> </u> | <u> </u> | <u> </u>      |  |  |
|       | 47   | ļ                                     | _        | <u> </u>   | <u> </u>   | <u> </u> | $\vdash$   | Ш        | _        | <u> </u>      |  |  |
|       | 48   | <u> </u>                              | <u> </u> | ├-   | <u> </u>   | <u> </u> | ⊢  |          | _        | <u> </u>      |  |  |
|       | 49   | <b> </b>                              | <u> </u> | ├  | ⊢  | <u> </u> | ├  | <u> </u> | _        | ├-            |  |  |
|       |  |                                       |          |  |  |          |  |          |          |               |  |  |

|          |   |          |                                     |          | 1 1      |       |                      |          |   |          |          |          |          |              |          |          |
|----------|---|----------|-------------------------------------|----------|----------|-------|----------------------|----------|---|----------|----------|----------|----------|--------------|----------|----------|
| Date     |   |          |                                     |          |          | Cla   | Claim Date           |          |   |          | _        |          | $\dashv$ |              |          |          |
| 8/4/06   |   |          |                                     |          |          | Final | Original             |          |   |          |          |          |          |              |          |          |
|          |   |          |                                     |          |          |       | 51<br>52             |          |   |          |          |          |          |              |          |          |
| <b>√</b> |   |          |                                     |          | } [      |       | 52                   |          |   |          |          |          |          |              |          |          |
| √        |   |          |                                     |          |          |       | 53                   |          |   |          |          |          |          |              |          |          |
| √        |   |          |                                     |          |          |       | 53<br>54             |          |   |          |          |          |          |              |          |          |
|          |   |          |                                     |          |          |       | 55                   |          |   |          |          |          |          |              |          |          |
| <b>√</b> |   |          |                                     |          | ] [      |       | 56<br>57             |          |   |          |          |          |          |              |          |          |
| √        |   |          |                                     |          | ] [      |       | 57                   |          |   |          |          |          |          |              |          |          |
| √        |   |          |                                     |          |          |       | 58<br>59             |          |   |          |          |          |          |              |          | Ш        |
| √ _      |   |          |                                     |          |          |       | 59                   |          |   |          |          |          |          |              |          |          |
| √ _      |   |          |                                     |          |          |       | 60                   |          |   |          | _        |          |          | L            |          |          |
| <b>√</b> | 1   |          |                                     |          |          |       | 61<br>62<br>63       |          |   |          |          |          | لـــا    |              |          | Ш        |
| <b>√</b> | 1   | L        | <u> </u>                            |          |          |       | 62                   |          |   |          | _        |          |          | L            |          | Ш        |
| <b>√</b> |   |          |                                     |          |          |       | 63                   |          |   |          |          |          |          |              | _        | Ш        |
| <b>√</b> | <u> </u>  | <u> </u> | Ш                                   |          |          |       | 64<br>65             | L        | _ | _        |          |          | Ш        | $oxed{oxed}$ | Ш        | Ш        |
| $\perp$  | $oxed{oxed}$  | _        |                                     |          |          |       | 65                   |          |   |          |          |          |          | $oxed{oxed}$ |          |          |
|          |   |          |                                     |          |          |       | 66                   |          |   |          |          |          |          | <u> </u>     |          |          |
|          |   | L        |                                     |          |          |       | 67                   |          |   |          |          |          | _        |              |          |          |
|          |   |          |                                     |          |          |       | 67<br>68<br>69<br>70 |          |   |          |          |          |          |              |          |          |
| $\bot$   |   |          |                                     |          |          |       | 69                   |          |   |          |          |          |          |              |          |          |
|          |   |          |                                     |          |          |       | 70                   |          |   |          |          |          |          |              |          |          |
|          |   | _        |                                     |          |          |       | 71                   |          |   |          |          |          |          |              |          |          |
|          |   |          |                                     |          |          |       | 72<br>73<br>74       |          |   |          |          |          |          |              | L        |          |
|          | <u> </u>  |          |                                     |          |          |       | 73                   |          |   |          |          |          |          | L            | L        |          |
|          |   |          |                                     |          |          |       | 74                   |          |   |          |          |          |          |              | _        |          |
|          |   |          |                                     |          |          | _     | 75<br>76             |          |   |          |          |          |          |              | L        |          |
|          |   |          |                                     |          |          |       | 76                   |          |   |          |          |          |          |              |          |          |
|          |   |          |                                     |          |          |       | 77                   |          |   |          |          |          | L        | L            | L        | $\Box$   |
|          |   |          | $oxed{oxed}$                        | _        | ] [      |       | 78                   |          |   |          |          |          |          |              | L        | Ш        |
|          |   | <u>_</u> | _                                   |          | ] [      |       | 79                   |          |   |          |          |          |          |              |          | Ш        |
|          | L   | _        | _                                   | _        | ] [      |       | 80                   |          |   |          | L        | L        | L        | L.           |          | Ш        |
|          |   |          | L                                   |          |          |       | 81                   |          |   |          |          |          |          |              |          |          |
|          | $\perp$   |          |                                     |          | IJ       |       | 82                   | Ш        |   |          |          |          |          |              | _        | Ш        |
|          | ┸   | L        |                                     |          |          |       | 83                   |          |   |          |          |          | L        |              |          | Щ        |
|          | ļ   | L        |                                     |          | ļļ       |       | 84                   | Ш        |   |          | <u>L</u> |          | <u> </u> | <u> </u>     | <u> </u> | Ш        |
|          | <u> </u>  | _        | <u> </u>                            | _        |          |       | 85                   | Ш        |   |          | L_       | <u> </u> | <u> </u> | 匚            | <u> </u> | Щ        |
| $\bot$   | $\perp$   | _        | <u> </u>                            | _        |          |       | 86<br>87             | Ш        |   | _        | <u> </u> |          | <u> </u> | <u> </u>     | <u> </u> | Ш        |
|          | $\bot$  | L.       | <u> </u>                            | <u> </u> |          |       | 87                   | -        | _ | _        | <u> </u> | L        | <u> </u> | <u> </u>     | ļ        | Ш        |
|          | _   | L        | L                                   |          | ļļ       |       | 88                   | Щ        |   |          | _        |          | <u> </u> | <u> </u>     | L        | Щ        |
| 4        | 1_  |          | L                                   | <u>L</u> |          |       | 89<br>90             | Щ        |   |          | <u> </u> |          | <u> </u> | <u> </u>     | <u> </u> | Ш        |
| $\perp$  | $\perp$   | _        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u> |          |       |                      | Щ        |   |          | L.       |          |          |              | L        | Ш        |
|          | $oldsymbol{igstyle igstyle igytyle igstyle igytyle igstyle igytyle igytyle igytyle igytyle igytyle igytyle igstyle igytyle igytyle$ |          | L_                                  | <u> </u> |          |       | 91                   | Ш        | _ |          | L_       | L        |          | <u> </u>     | L        | Щ        |
| $\bot$   | $\perp$   | _        |                                     | <u> </u> |          |       | 92                   | Щ        |   |          |          |          | <u> </u> | <u> </u>     | <u> </u> | Ш        |
| $\bot$   | 1   | <u> </u> |                                     |          |          |       | 93                   | Ш        |   |          |          |          | <u> </u> | <u> </u>     | <u> </u> | $\sqcup$ |
|          | <u> </u>  | Щ        | <u> </u>                            | <u> </u> |          |       | 94                   | <u> </u> | _ | <u> </u> | <u> </u> | L_       | <u> </u> | <u> </u>     | <u> </u> | Щ        |
|          | $oldsymbol{\perp}$  |          | <u> </u>                            | <u> </u> |          |       | 95                   | Ш        | _ |          | L_       | L        | <u> </u> | <u> </u>     | L        | Щ        |
| $\bot$   | $\perp$   | L        | <u> </u>                            | L.       |          |       | 96                   | Ш        |   |          | L_       | L_       | <u> </u> |              | L        | Щ        |
| $\perp$  | ┺   |          | _                                   | <u> </u> |          |       | 97                   | Щ        |   |          | <u> </u> | L.       | <u> </u> |              | L_       | Щ        |
| $\bot$   | $\bot$  | L_       | <u> </u>                            |          |          |       | 98                   | Щ        |   |          | <u> </u> | L_       | <u> </u> | _            | Ш        | Ш        |
| $\perp$  | _   | L.       | <u> </u>                            | L.       |          |       | 99                   | Щ        |   |          | <u> </u> |          | ⊢        | <u> </u>     | <u> </u> | Ш        |
|          | <u> </u>  | L_       | L                                   |          | <b>J</b> |       | 100                  | Ш        |   | <u></u>  | <u></u>  |          | <u> </u> | Щ.           | L,       | لــا     |
|          |   |          |                                     |          |          |       |                      |          |   |          |          |          |          |              |          |          |

| Cli      | aim                      | Date         |  |  |  |                |                |              |          |          |  |
|----------|--------------------------|--------------|--|--|--|----------------|----------------|--------------|----------|----------|--|
|          |                          |              |  |  |  |                |                |              |          |          |  |
| ā        | Original                 |              | ļ  |  |  |                |                |              |          |          |  |
| Final    | rig                      |              |  |  |  |                |                |              |          |          |  |
|          |                          |              |  |  |  |                |                |              |          |          |  |
|          | 101<br>102               |              |  | Г  |  |                |                |              |          |          |  |
|          | 102                      |              |  |  |  | Г              | Г              |              |          | $\Box$   |  |
|          | 103                      |              |  |  |  |                |                |              |          |          |  |
|          | 104                      |              |  |  |  |                |                |              |          |          |  |
|          | 103<br>104<br>105        |              |  |  |  |                |                |              |          |          |  |
|          | 106<br>107               |              |  |  |  |                |                |              |          | П        |  |
|          | 107                      |              |  |  |  |                |                |              |          |          |  |
|          | 108                      |              |  |  |  |                |                |              |          |          |  |
|          | 108<br>109               |              |  |  |  |                |                |              |          |          |  |
|          | 110                      |              |  |  |  |                |                |              |          |          |  |
|          | 111                      |              |  |  |  |                |                |              |          |          |  |
|          | 112                      |              |  |  |  |                |                |              |          |          |  |
|          | 111<br>112<br>113        |              | L  |  |  |                |                |              |          |          |  |
|          | 114                      |              |  |  |  |                |                |              | L        |          |  |
|          | 114<br>115<br>116        |              |  |  |  | L              |                |              | L        |          |  |
| L        | 116                      |              |  |  |  |                |                |              |          |          |  |
|          | 1117                     |              |  |  |  |                |                |              |          | Ш        |  |
|          | 118<br>119<br>120        |              |  |  | <u> </u>   | _              |                |              |          |          |  |
|          | 119                      |              |  |  | L  | _              |                |              |          | Ш        |  |
|          | 120                      |              |  |  |  |                |                |              |          |          |  |
|          | 121                      |              |  | <u> </u>   | _  |                |                | L            | _        | Ш        |  |
|          | 122                      |              |  | L  | L  |                | L              | L            |          | Ш        |  |
|          | 123                      |              |  | L  |  |                |                |              |          | Ш        |  |
|          | 121<br>122<br>123<br>124 |              | L  | L  | L.   |                | L              |              |          | Ш        |  |
| L        | 125<br>126<br>127        |              |  | lacksquare                                       |  | _              | _              |              | _        | Ш        |  |
| ļ        | 126                      |              | <u> </u>   | <u> </u>   | L  |                | <u> </u>       |              |          | Ш        |  |
|          | 127                      |              | _  | 匚  | _  | _              |                |              |          | Ш        |  |
|          | 128<br>129<br>130<br>131 |              | <u> </u>   | _  |  |                | L              | _            |          |          |  |
|          | 129                      |              | <u> </u>   | _  |  |                |                | _            | L        | Ш        |  |
|          | 130                      | _            | <u> </u>   | _  | _  |                |                | _            | _        | Ш        |  |
| <u> </u> | 131                      |              |  | _  |  | _              | <u> </u>       |              | <u> </u> | Щ        |  |
|          | 132<br>133<br>134        | <u> </u>     | <u> </u>   |  |  | _              | <u> </u>       | _            |          | _        |  |
|          | 133                      | <u> </u>     | <u> </u>   | <u> </u>   |  |                | <u> </u>       | _            | _        |          |  |
|          | 134                      | <u> </u>     | <u> </u>   | <u> </u>   | <u> </u>   | <u> </u>       | <u> </u>       | _            | <u> </u> | Ш        |  |
|          | 135                      | ├            | Ь.   | <u> </u>   | <u> </u>   | $\vdash$       | $\vdash$       | ├-           |          |          |  |
|          | 136<br>137               | ├            | ├  | <u> </u>   | ├-   | <u> </u>       | <u> </u>       | _            | ⊢-       | $\vdash$ |  |
|          | 13/                      | ⊢            | <del>                                     </del> | <del> </del>                                     | ├  | <b>—</b>       | <del>  -</del> | ├—           |          | $\vdash$ |  |
|          | 138                      | $\vdash$     | $\vdash$   | <del>  -</del>                                   | $\vdash$   | <del>  -</del> |                |              |          | $\vdash$ |  |
|          | 139                      | ├            | $\vdash$   | <del>                                     </del> | ⊢  | -              |                |              | ├-       | $\vdash$ |  |
|          | 140                      | -            | $\vdash$   | $\vdash$   | <del> </del>                                     | ├-             | ├              | -            | $\vdash$ | H        |  |
| <b>_</b> | 141                      | ├            | $\vdash$   | -  | $\vdash$   | -              | ├              | <del> </del> | -        | Н        |  |
|          | 142                      | <del> </del> | -  | -  | -  | <del>  -</del> |                | <del> </del> | $\vdash$ | Н        |  |
|          | 143                      | ├            | $\vdash$   | $\vdash$   | ├-   | ├              | ├-             | ┝            | -        | -        |  |
|          | 144                      | -            | $\vdash$   | -  | -  | -              | $\vdash$       | ├─           | ├        | -        |  |
| <u> </u> | 145                      | -            | -  | -  |  | $\vdash$       | $\vdash$       | <del> </del> | ⊢        | H        |  |
|          | 146                      |              | -  | -  | <del> </del>                                     | $\vdash$       | <del> </del>   | $\vdash$     | -        | $\vdash$ |  |
| -        | 147                      | -            | ┈  |  | <del>                                     </del> | $\vdash$       | ⊢              | <del> </del> | ├        | $\vdash$ |  |
|          | 148                      | -            | ⊢  | $\vdash$   | <del> </del>                                     | -              | ├              | $\vdash$     | ⊢        | H        |  |
|          | 149                      | <del> </del> | ₩  | $\vdash$   | -  | -              | ├-             | -            | ⊢        | $\vdash$ |  |
| L        | 150                      | <u> </u>     |  | L  |  |                |                | L            | <u> </u> | L        |  |